

AMENDMENTS TO THE CLAIMS

Claim 1. (Cancelled)

Claim 2. (Original) A magnetic fluid treatment device comprising at least one fluid channel, the or each fluid channel having at least one peripherally located magnet; the device being adapted to cooperate with a fluid supply conduit, so that, in use, fluid flowing through the fluid channel is subjected to a magnetic field; the ratio of the cross-sectional area of the fluid supply conduit to the total cross-sectional area of the fluid channel or all of the fluid channels being in the range substantially 1:1.1 to substantially 1:2.8.

Claims 3-5. (Cancelled)

Claim 6. (Original) A magnetic fluid treatment device as claimed in Claim 2 wherein the ratio of the cross-sectional area of the fluid supply conduit to the total cross-sectional area of the or all of the fluid channels is in the range substantially 1:1.2 to 1:2.4.

Claims 7-8. (Cancelled)

Claim 9. (Previously Presented) A magnetic fluid treatment device as claimed in claim 2 where the fluid is a fuel.

Claim 10. (Currently Amended) A magnetic fluid treatment device comprising two or more fluid channels, each fluid channel having at least one peripherally located magnet, wherein the at least one magnet is removably received in a body section of the device, wherein a ratio of a fluid flow area of the device and/or channels thereof to a fluid flow area of a fluid supply conduit to which the device is attached is in the range of substantially 1:1.1 to substantially 1:2.8.

Claim 11. (Original) A magnetic fluid treatment device as claimed in Claim 10 wherein the body section is non-ferrous.

Claim 12. (Previously Presented) A magnetic fluid treatment device as claimed in claim 10 further comprising at least one internal magnet within the fluid channel.

Claim 13. (Previously Presented) A magnetic fluid treatment device as claimed in claim 10 wherein the device is fitted within an existing fluid supply conduit.

Claim 14. (Previously Presented) A magnetic fluid treatment device as claimed in claim 10 wherein the device comprises one or more internal replaceable magnetic cartridges held in position inside the device by retaining means into which the removable magnet cartridge(s) will slot, wherein the or each internal replaceable magnetic cartridge splits the fluid channel into subsidiary channels.

Claims 15-16. (Cancelled)

Claim 17. (Currently Amended) A magnetic fluid treatment device as claimed in claim 10 wherein the ratio of the fluid flow area of the device and/or channels thereof to the fluid flow area of [[a]] the fluid supply conduit to which the device is attached is substantially 1:1.2 to 1:2.4.

Claims 18-23. (Cancelled)

Claim 24. (Previously Presented) A magnetic fluid treatment device as claimed in claim 2 wherein the magnetic field(s) is applied substantially at right angles to fluid flowing through the fluid channel.

Claim 25. (Previously Presented) A magnetic fluid treatment device comprising:

a fluid channel having an input adapted to connect with a fuel supply conduit, and an output adapted to connect with the fuel supply conduit;

a magnet located peripherally around the fluid channel that subjects fluid flowing through the fluid channel to a magnetic field;

wherein the fluid supply conduit defines a first cross-sectional area, the fluid channel defines a second cross-sectional area, and a ratio of the first cross-sectional area to the second cross-sectional area is between about 1:1.1 and about 1:2.8.

Claim 26. (Previously Presented) A magnetic fluid treatment device comprising:

two or more fluid channels having an input adapted to connect with a fuel supply conduit,
and an output adapted to connect with the fuel supply conduit;

a magnet located peripherally around the two or more fluid channels that subjects fluid
flowing through the two or more fluid channels to a magnetic field;

wherein the fluid supply conduit defines a first cross-sectional area, the two or more fluid
channels in combination define a second cross-sectional area, and a ratio of the first cross-
sectional area to the second cross-sectional area is between about 1:1.1 and about 1:2.8.

Claim 27. (Currently Amended) A magnetic fluid treatment device comprising:

a fluid channel having an input adapted to connect with a fuel supply conduit, and an
output adapted to connect with the fuel supply conduit;

a magnet located peripherally around the fluid channel that subjects fluid flowing through
the fluid channel to a magnetic field;

wherein the fluid channel is dimensioned and configured so that fluid flowing through the
fluid channel has a slower flow rate than fluid flowing through the fuel supply conduit,

further wherein the fluid supply conduit defines a first cross-sectional area, the fluid
channel defines a second cross-sectional area, and a ratio of the first cross-sectional area to the
second cross-sectional area is between about 1:1.1 and about 1:2.8.